

Title (en)  
METHOD FOR THE DETECTION OF AN ELECTROMAGNETIC SIGNAL BY AN ANTENNA ARRAY, AND DEVICE IMPLEMENTING SAID METHOD

Title (de)  
VERFAHREN ZUR DETEKTION EINES ELEKTROMAGNETISCHEN SIGNALS DURCH EIN ANTENNENARRAY UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)  
PROCÉDÉ DE DÉTECTION D'UN SIGNAL ÉLECTROMAGNÉTIQUE PAR UN RÉSEAU ANTENNAIRE ET DISPOSITIF METTANT EN OEUVRE LE PROCÉDÉ

Publication  
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Application  
**EP 14752820 A 20140813**

Priority  
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• EP 2014067292 W 20140813

Abstract (en)  
[origin: WO2015024827A1] The invention relates to a method for detecting an electromagnetic signal, comprising the following steps of: applying a plurality of time-frequency transforms (101) to the electromagnetic signal received; for each time-frequency bin of a given set of bins, (i) calculating (103) the energy of the vector formed by the spectra over all of the antenna elements, and (ii) applying (104) the following non-linear T function to the result of the energy calculation, i.e. if the norm of the energy is below a first predetermined threshold s, the result of the T function is zero, and if the norm of the energy is above or equal to the first threshold s, the result of the T function is equal to the norm of the energy minus the value of the first threshold s; integrating (105) the result of the non-linear T function into the above-mentioned set of time-frequency bins; comparing (106) the result of the integration with a second pre-determined threshold in order to detect the presence of the signal.

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**H04B 7/08** (2006.01)

CPC (source: EP US)  
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Citation (search report)  
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